



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/691,713

10/22/2003

Steve A. Jacob

200207564-1

6864

22879

7590

12/28/2005

HEWLETT PACKARD COMPANY  
P O BOX 272400, 3404 E. HARMONY ROAD  
INTELLECTUAL PROPERTY ADMINISTRATION  
FORT COLLINS, CO 80527-2400

EXAMINER

PHAM, HAI CHI

ART UNIT

PAPER NUMBER

2861

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

sf

<b>Office Action Summary</b>	Application No. 10/691,713	Applicant(s) JACOB, STEVE A.	
	Examiner Hai C. Pham	Art Unit 2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 October 2005.  
 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.  
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
 6) ☒ Claim(s) 1-21 is/are rejected.  
 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \*    c) ☐ None of:  
         1. ☐ Certified copies of the priority documents have been received.  
         2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
         3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
     \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date: _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date: _____  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Allowable Subject Matter*

1. The indicated allowability of claim 8, whose content is now incorporated into claims 1, 12 and 17, is withdrawn in view of the newly discovered reference to Miura et al. (JP 2002-123147). Rejections based on the newly cited reference follow.

### *Claim Objections*

2. Claims 1, 12 and 17 are objected to because of the following informalities:

#### Claim 1:

- Line 8, “the speed of a fuser roller in an electrophotographic image-forming device” should read --a speed of a fuser roller in said electrophotographic image-forming device--.

#### Claim 12:

- Line 7, “the speed of a fuser roller in an electrophotographic image-forming device” should read --a speed of a fuser roller in said electrophotographic image-forming device--.

#### Claim 17:

- Line 6, “the speed of a fuser roller in an electrophotographic image-forming device” should read --a speed of a fuser roller in said electrophotographic image-forming device--.

Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 3-4, 9-12, 14-18 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tosaka et al. (Pub. No. U.S. 2002/0058193) in view of Miura et al. (JP 2002-123147).

Tosaka et al. discloses a toner and image forming method for creating photographic and text images in an electrophotographic image forming device, comprising providing a set of color toners (developing devices 41-44 containing yellow, magenta, cyan and black toners, respectively), said set comprising a toner having high cyan pigment load, a toner having a high magenta pigment load, a high yellow pigment load, providing a black toner having black pigment (each of the color toners having a high load of respective pigment set at 2-30 weight percent), providing a first set of image output terminal settings to deliver a partial amount of color toners to a target media, and providing a second set of image output terminal settings to deliver a complete amount of color toners to said target media (the color toners are sequentially deposited on the surface of the photosensitive drum 1 to develop the latent image formed on it, and the superposition of the toners forms the full-color image) (Fig. 1).

However, Tosaka et al. fails to teach the increase of the speed of the fuser roller.

Miura et al. teaches an image forming device in which the driving speed  $V_p$  of the fixing roller (12d) is increased for the purpose of securely clamping the recording paper while isolating the sediment of toner and dust on the surface of the recording paper by rubbing against the recording paper.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to increase the speed of the fixing roller in the device of Tosaka et al. as taught by Miura et al. for the purpose of securely clamping the recording paper while isolating the sediment of toner and dust on the surface of the recording paper by rubbing against the recording paper.

Tosaka et al. further teaches:

- Transferring at least one said color toner to said target material (the full-color image being transferred from the intermediate transfer belt 5 onto the recording medium P),
- Transferring said black toner to said target media (the toner colors being superposed on each other),
- The target material being paper (plain paper P).

With regard to claim 15, Tosaka et al. fails to teach the color toners having a pigment load of from 40 to 60 weight percent. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to set the pigment load of each color toner at between 40 to 60 weight percent as claimed, since it has been held that where the general conditions of a claim are disclosed in the prior art,

discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

5. Claims 2, 5-7, 13 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tosaka et al. in view of Miura et al., as applied to claims 1, 12, 17 above, and further in view of Caruthers, Jr. et al. (6,002,893).

Tosaka et al., as modified by Miura et al., discloses all the basic limitations of the claimed invention except for the addition of one or more colors selected from red, blue and green or CMY pigments, the addition of the color toners to increase the pigment load by about 1 to 200 percent.

Caruthers, Jr. et al. discloses high and low pigment loadings for custom colors used in an electrophotographic printing system, wherein colorants such as pigments black, cyan, magenta, yellow, red, blue, green and mixtures of any one colorant comprise from 0.1 to 99.9 percent of the colorant mixture so as to increase pigment mass per unit area to obtain a desired custom color (col. 14, lines 21-46).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to form mixture of desired colorants in the device of Tosaka et al. as taught by Caruthers, Jr. et al. The motivation for doing so would have been to extend the color gamut for use in the printing system.

***Pertinent Prior Art***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fukutani (U.S. 6,892,038) discloses the conveying speed of the fixing unit being increased to be at least equal to the process speed to reduce the amount of loop.

***Response to Arguments***

7. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new grounds of rejection.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C. Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (571) 272-1934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2861

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



HAI PHAM  
PRIMARY EXAMINER

December 23, 2005